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ABSTRACT

The Statewide Measures Inventory is essentially a list of items of information, along with concise definitions and other information of interest relevant to statewide postsecondary education planning and management. It has been designed primarily for use by state level postsecondary education planners and decisionmakers. The primary objective of the inventory is to improve and simplify communication through increased standardization of terminology and usage. Secondary objectives are to provide assistance to those concerned with developing and designing data bases and information systems, and to suggest ways that statewide planning and decisionmaking might be improved through the identification of problems and issues to which the measures of the inventory are relevant. Although the inventory was developed in the context of statewide planning and decisionmaking, it may prove valuable to institutional and national planners and decisionmakers as well. Because of the wide variety of patterns of planning and decisionmaking responsibilities in the 50 states, an early decision was made not to attempt to serve any particular planning, management, or resource allocation system, but instead to focus on rather general, broadly applicable planning and management needs. The result is the current focus on general state level concerns that are widely held to be major problems areas in the 50 states, but are not closely related to particular management system or styles. (Author)

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- provide improved information to higher education administration at all levels.
- facilitate exchange of comparable data among institutions.
- facilitate reporting of comparable information at the state and national levels.

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AN OVERVIEW AND GUIDE TO THE USE OF THE STATEWIDE MEASURES INVENTORY

Technical Report 48B

(Field Review Edition)

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June 1974

This document is a companion to another NCHEMS report, Statewide Measures Inventory: An Inventory of Items of Information Relevant to Statewide Postsecondary Education Planning and Management (Technical Report 48A). The two have been developed jointly and it is the hope of the authors that they will be used together to take advantage of their complementarity. Both documents are part of a program supported by the National Institute of Education (NIE).

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PREFACE

This paper discusses in nontechnical terms the origins, features, and possible uses of the Statewide Measures Inventory (McLaughlin, Wing, and Allman, 1974). It has been developed jointly by the NCHEMS staff and the Statewide Measures Task Force, and has been reviewed and recommended for release in this field review edition by both the staff and the Task Force.

Although its primary target audience is policy makers and analysts at state postsecondary education agencies, it is anticipated that postsecondary education institutions and national organizations also will find it of interest. For this reason, it is being distributed to the entire NCHEMS mailing list for review.

Comments and suggestions received in conjunction with this field review will be incorporated as appropriate into the final version of the first edition to be released in the fall of 1974. Readers are urged to review this document and the accompanying Statewide Measures Inventory and submit their comments, criticisms, and suggestions directly to the authors before September 1, 1974.

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INTRODUCTION

The Statewide Measures Inventory is essentially a list of items of information, along with concise definitions and other information of interest, relevant to statewide postsecondary education planning and management. It has been designed primarily for use by state level postsecondary education planners and decision makers.

The primary objective of the Inventory is to improve and simplify communication through increased standardization of terminology and usage. Secondary objectives are to provide assistance to those concerned with developing and designing data bases and information systems, and to suggest ways that statewide planning and decision making might be improved through the identificatio of problems and issues to which the measures in the Inventory are relevant.

Although the Inventory was developed in the context of statewide planning and decision making, it may prove valuable to institutional and national planners and decision makers as well. To the extent that their concerns coincide with those identified as important for state level planners and decision makers, they should find it a valuable reference document.

Because of the wide variety of patterns of planning and decision making responsibilities in the 50 states (as discussed by Wing [1972, pp. 13-17]),

an early decision was made not to attempt to serve any particular planning, management, or resource allocation system, but instead to focus on rather general, broadly applicable planning and management needs. The result is the current focus on general state level concerns that are widely held to be major problem areas in the 50 states, but are not closely related to particular management systems or styles.

The Statewide Measures Inventory, therefore, is a relatively flexible management tool that can be applied in numerous organizational settings. It is hoped that with a minimum of effort the Inventory can be interfaced with existing planning and management systems in many states and agencies.

ANTECEDENTS

The Statewide Measures Inventory is one of a series of products being developed at the National Center for Higher Education Management Systems (NCHEMS) at WICHE for improving communication in postsecondary education. Because the Inventory owes a great deal to several earlier projects at the Center, and in effect is an extension of them, it is appropriate to mention them and indicate the major links to this current effort before discussing the Inventory itself.

The Data Element Dictionary

The first product of NCHEMS was the first edition of the Data Element Dictionary (Thomas, 1970). This set of documents was an inventory of data elements:

"1. Necessary for completion of the Higher Educational General Information Survey (HEGIS)

2. Likely to be needed for Cost Exchange Procedures [subsequently renamed Information Exchange Procedures]*

3. Likely to be needed for the Student Flow Model*

4. Likely to be needed for the Resource Requirements Prediction Model*

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*Other NCHEMS projects. Interested readers can find out more about these projects in the following reports which provide introductions to the respective projects and their products: Renkiewicz and Topping (1973); Johnson (1973); and Gulko and Hussain (1971).

5. Necessary to link operational files [of higher education institutions] together for the derivation of information

6. Basic to institutional record keeping."

The inventory included a concise description of each data element and also identified important uses of the data elements in other NCHEMS projects and products.

Four years later the second edition of the Data Element Dictionary (Goddard, Martin, and Romney, 1973) was released. This document extends the first edition, incorporating "reactions to the first edition by the higher education community, the development of other related NCHEMS products, and further efforts of the DED Task Force and Center staff in developing data bases for higher education information systems." Perhaps the most significant substantive difference between the two editions is the provision of definitions, rather than descriptions, of the data elements in the second edition.

The Statewide Measures Inventory is an extension of this previous work on the Data Element Dictionary. The primary target audience is state level, rather than institutional planners, decision makers, and analysts and the emphasis is more on items of information relevant to statewide problems than on data elements useful primarily to institutions; but the basic objectives are the same and the format is similar. In fact, the Inventory

of Statewide Measures can be viewed as an augmentation of, or a new section in, the Data Element Dictionary, although it has been designed to stand on its own.

Program Measures

The other major antecedent of the Statewide Measures Inventory is the Program Measures document (Topping and Miyataki, 1973) developed as a companion and supplement to the NCHEMS Program Classification Structure (Gulko, 1972). Program measures in that context are descriptors of the educational programs as defined by the Program Classification Structure (PCS). Six classes of Program Measures have been identified and discussed in detail covering target groups, beneficiary groups, activities, resources, finances, and outcomes. Jointly, these categories cover nearly any kind of information a planner or manager might want or need concerning an educational program or activity.

Other NCHEMS Projects

In developing this Inventory several other projects at NCHEMS have been drawn on by the staff and the Task Force. Particularly important have been the Information Exchange Procedures project (Renkiewicz and Topping, 1973), the Outcomes of Higher Education project (Micek and Wallhaus, 1973), the Higher Education Finance Manual project (Collier, 1972), the Facilities

Inventory Classification Manual project (Romney, 1972), and the Statewide Planning project (Wing, 1972). Ideas and definitions have been drawn from all five of these projects, and readers may find the documents cited above to be valuable supplements to both this introduction and the Inventory itself.

THE STATEWIDE MEASURES INVENTORY

Before discussing the uses of the Inventory, it is appropriate to mention briefly some of the features of the Inventory and the criteria used in developing it.

Organization and Format

As shown in Figure 1, the Inventory includes several types of information about each measure: its name, definition, additional comments and discussion, relevant state level concerns, sources, and date issued. This page format, very similar to the one used in the Data Element Dictionary, was adopted to allow for the possibility of merging the Inventory into the DED. As in the DED, the measure number at the top of the page is intended only to facilitate identification and location of the measures and has no implications for standard coding practices.

The overall structure of the Inventory is very similar to that of the DED. Rather than having five major sections as does the DED, the Inventory is organized into eight major sections plus a glossary. The general correspondence between the DED sections and the Inventory sections is shown in Figure 2.

In the five sections where a direct correspondence exists, the Inventory measures are often aggregations or constructs of the data elements

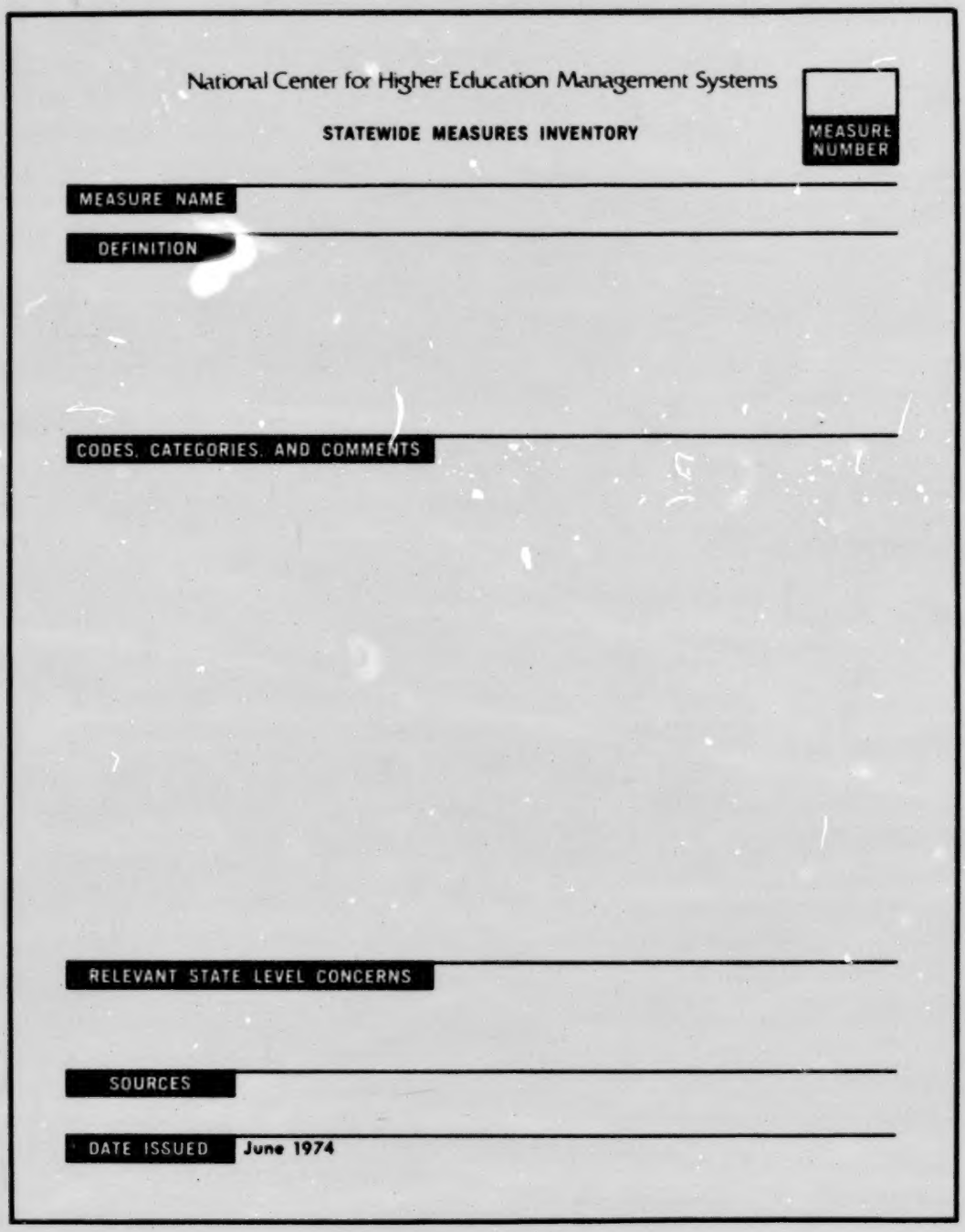

Figure 1. SAMPLE OF THE PAGE FORMAT FOR THE STATEWIDE MEASURES INVENTORY

Figure 2. MAJOR SECTION HEADINGS OF THE STATEWIDE MEASURES INVENTORY AND THE DATA ELEMENT DICTIONARY

SWM Inventory	DED
° Enrollments	° Student
° Programs	° Course
° Staff	° Staff
° Finance	° Finance
° Facilities	° Facilities
° General Information about State	
° Student Access	
° Manpower	
° Glossary	

in the DED. The three other major sections generally include measures and indicators of conditions in the state relevant to postsecondary education planning and management, and also to interactions between educational programs and institutions and other aspects of society in the state. The Glossary includes basic terminology referred to frequently in the definitions and comments for individual measures.

Criteria for Including Items in the Inventory

To ensure that all measures under consideration for inclusion in the Inventory were treated systematically and consistently, specific criteria for including items in the Inventory were identified early in the project. These criteria provide relatively concrete guidelines for determining whether or not some new item ought to be added to the Inventory, or whether some item currently in the Inventory ought to be dropped. In a sense, they define the objectives of the Inventory.

Two major criteria were identified:

(1) The Statewide Measures project will focus on the identification of descriptors or measures relevant to state level postsecondary education planning and management.

(2) Only measures that are or would be useful to state level agencies in most states should be included in the Inventory.

Four secondary criteria or guidelines also were established:

(1) Measures and data elements suggested by other NCHEMS products and projects shall be considered for inclusion in the Inventory.

(2) Wherever institutional data are required to compute or develop a statewide measure, the procedure should call for an aggregation of existing institutional data elements as defined in the Data Element Dictionary.

(3) Data elements relevant to all sectors of postsecondary education will be included to the extent possible.

(4) The feasibility of collecting the data will be considered when deciding whether or not to include specific measures. If it is clearly infeasible to collect data for a particular measure, the measure usually will be omitted from the Inventory.

Relevance to statewide planning and management has been the most important criterion, primarily because the Task Force and staff are concerned that the project should not become involved unnecessarily in matters that do not or should not concern it. In some cases it was difficult to apply this criterion precisely, usually because of differences in actual practices in state agencies across the country and differences in the perceptions of the Task Force members. In such situations, the Task Force usually opted to include the item in the Inventory, particularly when a clear-cut definition for the measure was available.

Relevant State Level Concerns

Each measure in the Inventory has been tagged with one or more relevant state level concerns. The concerns, which are matters of general interest and

importance to state agencies, can be thought of as areas of potential application for the measures in the Inventory. The complete list of concerns identified by the staff and Task Force is in Table 1, and brief descriptions of each are provided in Appendix A.

The criteria for deciding whether or not to include a particular concern on this list were essentially the same as those applied in evaluating particular measures for inclusion in the Inventory. In practice this meant that to qualify for inclusion in the Inventory, a measure had to be relevant to at least one of the concerns in Table 1.

Relationship of Concerns to Actual State Level Functions and Problems

Although the list of concerns in Table 1 does provide a starting point for defining the uses of the Statewide Measures, it is only a starting point. More appropriate would be a list of specific state level problems and decisions and/or planning and management functions to which the measures could be related. However, given the wide variety of operating modes and specific responsibilities of state agencies, it would be difficult to arrive at a list of specific problems or functions acceptable to most state agencies. And since the general concerns enumerated in Table 1 are quite widely held, the current choice seems appropriate.

Table 1. LIST OF STATE LEVEL CONCERNS

(1) General Information

(2) State Level Goals

(3) State Level Objectives

(4) Institutional Role and Scope

(5) Statewide Organization (formal reporting)

(6) Statewide Coordination (procedures)

(7) Program Demand (instruction, research, public service, and support)

(8) Program Existence and Size

(9) Program Location (geographic)

(10) Student Access (actual)

(11) Organizational-Unit Costs (resources)

(12) Program Costs (resources)

(13) Organizational Unit Impacts (outcomes)

(14) Program Impacts (outcomes)

(15) Differentiation and Articulation

(16) Program Priorities

(17) Operational Funding

(18) Capital Funding

(19) Revenue Analysis

(20) Faculty and Staff Workload

(21) Faculty and Staff Compensation

(22) Student Aid

(23) Manpower

In a very general sense, the concerns listed in Table 1 could be related to one or more of the major planning and management functions of state agencies: planning, programming/budgeting, execution, or evaluation. These essentially are the four elements of the postsecondary education process described by Wallhaus (1973), which he referred to as the Goal Setting Process, the Planning and Resource Allocation Process, the Educational Process, and the Evaluation Process. Similarly, the concerns could be related to specific state level problems and decisions, such as those in the exemplary list in Table 2. However, since either of these alternatives would require explicit descriptions of the important planning and management functions and procedures of state agencies, they both will have to await further research and development.

In the meantime, the concerns of Table 1 can serve as surrogates for specific problems and functions, and can be used as a partial basis for an analysis of how each measure in the Inventory can be used by state agencies. This kind of analysis is beyond the scope of the Statewide Measures project. It is, however, within the purview of the Statewide Analysis project at NCHEMS, and a major part of the effort in this companion project will be devoted to answering these kinds of questions.

Glossary

In developing the Inventory the staff and the Task Force identified a set of terms which, although they did not meet the criteria for inclusion in the Inventory proper, were felt to be important enough to require some sort of definition or explanation. Some of these items are related to institutional identification, some are related to possible criteria for aggregating or

Table 2. CLASSES OF STATE LEVEL PLANNING AND MANAGEMENT PROBLEMS AND DECISIONS

as identified by participants of Statewide Planning and Analysis Workshop on September 20-21, 1973 as part of the NCHEMS Statewide Analysis Project

1. PROGRAMS
   - Should a program exist?
   - How big should it be?
   - Where should it be located?

2. STUDENT ACCESS
   - Are all segments of population being served adequately by post-secondary education?
   - What can be done to equalize access?

3. MANPOWER
   - Is the supply of graduates balancing the demand for graduates in a particular program?
   - How fast do students respond to market stimuli?

4. PRICING
   - What tuition levels should be set for different programs?
   - How should support programs be priced?

5. OUTCOMES IDENTIFICATION AND MEASUREMENT
   - What are the outcomes, impacts, and benefits from different programs?

6. FINANCING
   - Who should pay for different programs?
   - What mechanisms should be used?

7. GOAL AND OBJECTIVE FORMULATION
   - What are the overall goals for postsecondary education in a state?
   - What measurable objectives are most appropriate?

8. NEW DELIVERY UNITS
   - Should a new campus be built?
   - Should a new TV media program be initiated?

9. ORGANIZATION
   - What organizational structure should be set up in a state?
   - What responsibilities should be assigned to different units?

10. TECHNICAL EFFICIENCY/RESOURCE MANAGEMENT
    - What is the most effective delivery system in a specific situation?

disaggregating some of the measures in the Inventory, and some simply appeared in the definitions of several of the measures or other glossary terms. These terms have been included and defined in the Glossary section of the Inventory so there will be no confusion about their definition and usage. Where a glossary term has been included which is also contained in some other NCHEMS product (for example, DED, IEP, etc.), the glossary definition is substantively the same as the one used in the other NCHEMS product.

USES OF THE INVENTORY

As with any planning and management tool, the primary objective of the Statewide Measures Inventory is to assist planners and administrators in making decisions. It does this in two principal ways: First, it provides a basic set of items of information with standard definitions that can serve as a communication link among the staff of a state agency, between staff and policy makers, between state agencies and institutions, between different state agencies, etc. Second, because the measures are linked to general state level concerns, the Inventory may suggest appropriate ways of dealing with these concerns in terms of collecting, storing, and displaying appropriate data.

It should be emphasized that the Inventory cannot serve this purpose independent of structures and analytical procedures for organizing, aggregating, and manipulating the measures into ratios, displays, etc. that are directly relevant to the particular decisions that must be made. It is hoped that the design of the Inventory will suggest to readers the kinds of follow-up work that might be undertaken. To provide additional guidance concerning the use of the Measures in the Inventory, the National Center will be developing some specific suggestions in other projects, particularly the Statewide Structures and Statewide Analysis projects.

In a more operational vein, it is appropriate to discuss briefly some of the existing possibilities for state agencies (or others) to adapt the

Inventory to their own needs. Perhaps the most important feature of the Inventory in this regard is its loose-leaf format. Users can organize the pages any way they wish to make the Inventory more useful for particular purposes. For example, if one were to duplicate the pages for items relevant to more than one concern, it would be possible to set up a packet of measures for each concern (see Appendix C). Such packets could provide valuable guidance about the kinds of information required to address the corresponding concerns. This is not to imply that this procedure for using the Inventory would be a sufficient basis for dealing with these concerns. However, to the extent that the Inventory covers all items of information relevant to statewide postsecondary education planning and management and the relevant concerns are accurately identified for the individual measures, it should serve as a useful reference point for analysts responsible for dealing with the identified concerns.

The source item on the Inventory page, which has been left blank for all of the measures except those having clearly identifiable standard sources, is another tabulation criterion. After a user has identified the specific sources of the measures in the Inventory, he or she might organize a packet of measures for each source. The resulting lists then could be used as a guide for setting up reporting forms and questionnaires; and the Inventory would provide the definitions to be used by the respondents.

Just as NCHEMS will add measures to the Inventory based on work in other projects and comments from the field, state agencies also are free to add

new measures to the Inventory based on their own particular needs. This possibility has been anticipated, and blank pages are available from the Center for this purpose. Of course, measures that are not useful to a particular agency can be discarded or filed in an inactive section.

The Inventory can be used also as a guide in the development of information systems, although this was not the principal motivation for the project. The Inventory can serve as a checklist for use by state agencies or others to identify the items of information they might wish to include in their data files. In addition, it may assist analysts concerned with the development of information systems to understand more fully the options that exist and choices that must be made in designing operational data systems for use in a statewide postsecondary education planning and management context.

One final point seems appropriate. Since the primary objective of this Statewide Measures Inventory is standardization of terminology, and the opportunity for improved communication is derived primarily from the use of the standard definitions provided, the flexibility that has been built into this document should not extend into the definitions. Only by using standard definitions can an agency have any assurance that compatible information is available and that meaningful comparisons are possible. One can choose not to use a particular measure in the Inventory, or one can add an entirely new measure with a tailor-made definition; but if one uses a measure provided in the Inventory, he or she should not tamper with the definition provided without making a special note that the definition is not the same as the original one included in the Inventory.

APPENDIX A

BRIEF DESCRIPTIONS OF STATE LEVEL CONCERNS USED IN THE STATEWIDE MEASURES INVENTORY

BRIEF DESCRIPTIONS OF STATE LEVEL CONCERNS
USED IN THE STATEWIDE MEASURES INVENTORY

(1) GENERAL INFORMATION

General description of the current status of postsecondary education institutions and programs and related population characteristics in a state.

(2) STATE LEVEL GOALS

Broad statements describing the desired status of society, in either absolute or relative terms.

(3) STATE LEVEL OBJECTIVES

Specific statements, in measurable or countable terms, translating goal statements into operationally useful guidelines for performance or impact evaluation.

(4) INSTITUTIONAL ROLE AND SCOPE

The specific activities and programs undertaken by a particular institution.

(5) STATEWIDE ORGANIZATION (Formal Reporting)

The formal responsibility, authority, and reporting patterns relating to the operations and interactions of various legislative, executive, and operating units in a state.

(6) STATEWIDE COORDINATION (Procedures)

The formal procedures for administering and coordinating the activities of the various operating units in a state.

(7) PROGRAM DEMAND (Instruction, Research, Public Service, and Support)

The amount of the activity or outcome of a particular program that would be purchased or consumed assuming it were available for a given price.

(8) PROGRAM EXISTENCE AND SIZE

The size of the program in terms of some relevant measure such as students enrolled, dollars spent, or outcomes achieved.

(9) PROGRAM LOCATION (Geographic)

The geographic location(s) of the program in question.

(10) STUDENT ACCESS (Actual, Potential, Desired, etc.)

The number of students that might be served, actually are served, and/or it is desired to serve by a particular program or organizational unit. Consideration usually is given to the factors influencing student participation.

(11) ORGANIZATIONAL UNIT COSTS (Resources)

Resources consumed or required for the operation of a particular organizational unit at a particular level of activity.

(12) PROGRAM COSTS (Resources)

Resources consumed or required for the operation of a particular program at a particular level of outcome production.

(13) ORGANIZATIONAL UNIT IMPACTS (Outcomes)

The outcomes produced by a particular organizational unit and their impact on achieving state (or other) objectives.

(14) PROGRAM IMPACTS (Outcomes)

The outcomes produced by a particular program and their impact on achieving state (or other) objectives.

(15) DIFFERENTIATION AND ARTICULATION

Ways of distinguishing among individual programs and institutions in a state, and ensuring that programs designed for sequential implementation fit together properly.

(16) PROGRAM PRIORITIES

A ranking of the relative importance or desirability of a set of programs. Typically, high priority programs are more important and receive preferential treatment.

(17) OPERATIONAL FUNDING

The process of selecting the amount of resources to be made available to each of the programs or organizational units under consideration for the current time period.

(18) CAPITAL FUNDING

The process of selecting the amount of resources to be made available to each of the programs or organizational units under consideration for capital improvements.

(19) REVENUE ANALYSIS

The identification of actual and potential sources of revenue for the support of programs and organizational units.

(20) FACULTY AND STAFF WORKLOAD

The amount of time and effort devoted to educational programs and activities by faculty and staff.

(21) FACULTY AND STAFF COMPENSATION

The salaries and fringe benefits provided to faculty and staff in compensation for their time and effort devoted to educational programs and activities.

(22) STUDENT AID

Resources provided to students either directly or indirectly to facilitate and encourage their participation in education programs.

(23) MANPOWER

Relationships between education programs and various labor markets, often discussed in terms of supply of and demand for graduates of the education programs.

APPENDIX B

MEASURES IN THE INVENTORY

MEASURES INCLUDED IN THE EIGHT SECTIONS OF
THE STATEWIDE MEASURES INVENTORY

(A) GENERAL INFORMATION ABOUT THE STATE

Gross State Income	1010
Gross State Product	1040
General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120
General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150
Taxes - Total	1200
Price Index	1220
New Construction Activity - Value	1250
Housing Starts	1260
Vacancy Rate in Rental Housing	1270
Personal Income - Total	1300
Disposable Personal Income - Total	1310
Personal Consumption Expenditures - Total	1320
Family Income - Distribution	1330
Population - Total	1340
Intrastate Migrations	1350
Interstate Migrations	1360
Births	1370
Deaths	1380
Morbidity Rate	1390
Population Receiving Public Assistance	1400
Public Offenses	1420
Voter Registrations	1440
Educational Attainment Level	1460
Education Enrollments - Total	1500
Postsecondary Education Institutions and Learning Centers	1520

(B) STUDENT ACCESS

Potential Applicants to Postsecondary Education	2010
Applicants to Postsecondary Education Programs and/or Activities	2030
Postsecondary Education Applicants Accepted	2050
High School Graduates	2070
High School Graduates - Continuing to Postsecondary Education	2080
First-Time Entering Students - Undergraduate	2100
First-Time Entering Students - First Professional	2110
First-Time Entering Students - Graduate	2120
Transfer Students	2150

(B) STUDENT ACCESS (Continued)

Continuing Students	2160
Readmitted Students	2170
Discontinuing Students	2180
Student Migrations - Intrastate	2200
Student Migrations - Interstate	2210
Financial Aid - Total	2250
Average Cost to Student - Total	2300
Average Incurred Cost to Student - Out-of-Pocket	2310
Average Cost to Student - Present Value of Foregone Income	2320

(C) MANPOWER

National Manpower Requirement - Total	3010
State Manpower Requirement - Total	3030
Local Manpower Requirement - Total	3050
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
National Occupational Earnings - Average	3310
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
National Occupational Turnover Rate	3410
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

(D) PROGRAMS

Instruction Programs, Courses of Study, and Activities	4010
Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities	4050
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities	4110
Public Service Programs and Activities - Completions	4130
Certification and Licensing Examination Attempters	4150
Sponsored Project Proposals Submitted	4210
Individuals Served by Support Programs	4220
Library Collections and Holdings	4230

(E) ENROLLMENTS

Student Enrollment - Headcount	5010
Full-Time Students	5040
Part-Time Students	5070
Full-Time Equivalent Students	5100
In-State Students	5150
Out-of-State Students	5170

(F) FINANCES

Total Assets - All Fund Groups	6010
Total Liabilities - All Fund Groups	6050
Total Fund Balances - All Fund Groups	6090
Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Net Change in Fund Balances - All Fund Groups	6190
Total Current Funds Revenues	6210
Total Current Funds Expenditures	6310
Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Scholarship and Fellowship Expenditures	6410
Capital Asset Expenditures	6430
Compensation Expenditures	6450
Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

(G) STAFF

Staff - Headcount	7010
Full-Time Staff	7040
Part-Time Staff	7070
Full-Time Equivalent Staff	7100
Staff Activity Workload - Average	7130
Student-Faculty Ratio	7210

(H) FACILITIES

Land Area	8010
Gross Area	8030
Assignable Area	8050
Nonassignable Area	8070
Enrollment Capacity	8110
Design Capacity	8140
Estimated Replacement Value	8210
Average Section Size (AvSS)	8310
Average Square Feet per Weekly Student Hour (AvSFWSH)	8410
Average Room Utilization Rate (AvRUR)	8420
Average Station Occupancy Ratio (AvSOR)	8430
Average Station Utilization Rate (AvSUR)	8440
Occupancy Rate	8510

APPENDIX C

LINKAGES BETWEEN STATEWIDE MEASURES AND STATE LEVEL CONCERNS

LINKAGES BETWEEN STATEWIDE MEASURES
AND STATE LEVEL CONCERNS

GENERAL INFORMATION

Concern (1)

Measure Names	Measure Numbers
Gross State Income	1010
Gross State Product	1040
General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120
General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150
Taxes - Total	1200
Price Index	1220
New Construction Activity - Value	1250
Housing Starts	1260
Vacancy Rate in Rental Housing	1270
Personal Income - Total	1300
Disposable Personal Income - Total	1310
Personal Consumption Expenditures - Total	1320
Family Income - Distribution	1330
Population - Total	1340
Intrastate Migrations	1350
Interstate Migrations	1360
Morbidity Rate	1390
Public Offenses	1420
Voter Registrations	1440
Educational Attainment Level	1460
Education Enrollments - Total	1500
Postsecondary Education Institutions and Learning Centers	1520
*	
Potential Applicants to Postsecondary Education	2010
Average Cost to Student - Total	2300
Average Incurred Cost to Student - Out-of-Pocket	2310
Average Cost to Student - Present Value of Foregone Income	2320
*	
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130

Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
National Occupational Earnings - Average	3310
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
National Occupational Turnover Rate	3410
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

*

Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities - Completions	4130
Certification and Licensing Examination Attempters	4150

*

Student Enrollment - Headcount	5010
Full-Time Students	5040
Part-Time Students	5070
Full-Time Equivalent Students	5100
In-State Students	5150
Out-of-State Students	5170

*

Total Assets - All Fund Groups	6010
Total Liabilities - All Fund Groups	6050
Total Fund Balances - All Fund Groups	6090
Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Net Change in Fund Balances - All Fund Groups	6190

*

Staff - Headcount	7010
Full-Time Equivalent Staff	7100
Staff Activity Workload - Average	7130

*

Land Area	8010
Gross Area	8030
Enrollment Capacity	8110
Design Capacity	8140
Estimated Replacement Value	8210

STATE LEVEL GOALS

Concern (2)

Gross State Income	1010
Gross State Product	1040
General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
Governmental Indebtedness - Total	1150
Taxes - Total	1200
Personal Income - Total	1300
Disposable Personal Income - Total	1310
Personal Consumption Expenditures - Total	1320
Family Income - Distribution	1330
Morbidity Rate	1390
Population Receiving Public Assistance	1400
Public Offenses	1420
Voter Registrations	1440
Education Enrollments - Total	1500

*

Potential Applicants to Postsecondary Education	2010

*

State Manpower Requirement - Total	3030
State Civilian Labor Force - Total	3130
State Civilian Labor Force - Employed	3230
State Occupational Earnings - Average	3330
State Occupational Turnover Rate	3430

STATE LEVEL OBJECTIVES

Concern (3)

Gross State Income	1010
Gross State Product	1040
General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120
General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150
Taxes - Total	1200
Price Index	1220
New Construction Activity - Value	1250
Housing Starts	1260

Personal Income - Total	1300
Disposable Personal Income - Total	1310
Personal Consumption Expenditures - Total	1320
Family Income - Distribution	1330
Deaths	1380
Morbidity Rate	1390
Population Receiving Public Assistance	1400
Public Offenses	1420
Educational Attainment Level	1460
Education Enrollments - Total	1500

*

Potential Applicants to Postsecondary Education	2010
High School Graduates	2070
High School Graduates - Continuing to Postsecondary Education	2080
First-Time Entering Students - Undergraduate	2100
First-Time Entering Students - First Professional	2110
First-Time Entering Students - Graduate	2120
Student Migrations - Intrastate	2200
Student Migrations - Interstate	2210
Financial Aid - Total	2250
Average Cost to Student - Total	2300
Average Incurred Cost to Student - Out-of-Pocket	2310

*

State Manpower Requirement - Total	3030
Local Manpower Requirement - Total	3050
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

*

Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities - Completions	4130
Certification and Licensing Examination Attempters	4150
Individuals Served by Support Programs	4220

*

Student Enrollment - Headcount	5010
In-State Students	5150
Out-of-State Students	5170

*

Total Assets - All Fund Groups	6010
Total Liabilities - All Fund Groups	6050
Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Current Funds Revenues	6210
Total Current Funds Expenditures	6310
Scholarship and Fellowship Expenditures	6410

*

Enrollment Capacity	8110
Design Capacity	8140

INSTITUTIONAL ROLE AND SCOPE

Concern (4)

Postsecondary Education Institutions and Learning Centers	1520

*

Postsecondary Education Applicants Accepted	2050
First-Time Entering Students - Undergraduate	2100
First-Time Entering Students - First Professional	2110
First-Time Entering Students - Graduate	2120
Transfer Students	2150
Continuing Students	2160
Readmitted Students	2170
Discontinuing Students	2180
Student Migrations - Intrastate	2200
Student Migrations - Interstate	2210
Financial Aid - Total	2250

*

Local Manpower Requirement - Total	3050
Local Civilian Labor Force - Total	3150
Local Civilian Labor Force - Employed	3250

*

Instruction Programs, Courses of Study, and Activities	4010
Instruction Programs, Courses of Study, and Activities - Completions	4030

Organized Research Programs and Activities	4050
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities	4110
Public Service Programs and Activities - Completions	4130
Sponsored Project Proposals Submitted	4210
Individuals Served by Support Programs	4220

*

Full-Time Students	5040
Part-Time Students	5070
In-State Students	5150
Out-of-State Students	5170

*

Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Net Change in Fund Balances - All Fund Groups	6190
Total Current Funds Revenues	6210
Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Scholarship and Fellowship Expenditures	6410

*

Land Area	8010
Enrollment Capacity	8110
Design Capacity	8140

STATEWIDE ORGANIZATION

Concern (5)

Postsecondary Education Institutions and Learning Centers	1520

*

Student Migrations - Intrastate	2200
Student Migrations - Interstate	2210

*

Instruction Programs, Courses of Study, and Activities	4010
Organized Research Programs and Activities	4050
Public Service Programs and Activities	4110
Sponsored Project Proposals Submitted	4210

*

Full-Time Equivalent Students	5100
In-State Students	5150
Out-of-State Students	5170

*

Total Assets - All Fund Groups	6010
Total Liabilities - All Fund Groups	6050
Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Current Funds Revenues	6210
Total Current Funds Expenditures	6310

*

Staff - Headcount	7010
Full-Time Equivalent Staff	7100
Staff Activity Workload - Average	7130
Student-Faculty Ratio	7210

*

Land Area	8010
Gross Area	8030

STATEWIDE COORDINATION

Concern (6)

Postsecondary Education Institutions and Learning Centers	1520

*

First-Time Entering Students - Undergraduate	2100
First-Time Entering Students - First Professional	2110
First-Time Entering Students - Graduate	2120
Transfer Students	2150
Continuing Students	2160
Readmitted Students	2170
Discontinuing Students	2180
Financial Aid - Total	2250

*

Instruction Programs, Courses of Study, and Activities	4010
Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities	4050
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities	4110
Public Service Programs and Activities - Completions	4130

*

Full-Time Equivalent Students	5100

*

Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Scholarship and Fellowship Expenditures	6410
Compensation Expenditures	6450
Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

*

Staff - Headcount	7010
Full-Time Equivalent Staff	7100
Staff Activity Workload - Average	7130
Student-Faculty Ratio	7210

*

Gross Area	8030
Assignable Area	8050
Nonassignable Area	8070
Enrollment Capacity	8110
Occupancy Rate	8510

PROGRAM DEMAND

Concern (7)

New Construction Activity - Value	1250
Housing Starts	1260

Vacancy Rate in Rental Housing	1270
Family Income - Distribution	1330
Intrastate Migrations	1350
Interstate Migrations	1360
Births	1370
Deaths	1380
Population Receiving Public Assistance	1400
Public Offenses	1420
Education Enrollments - Total	1500

*

Potential Applicants to Postsecondary Education	2010
Applicants to Postsecondary Education Programs and/or Activities	2030
High School Graduates	2070
High School Graduates - Continuing to Postsecondary Education	2080
Student Migrations - Intrastate	2200
Student Migrations - Interstate	2210
Average Cost to Student - Total	2300
Average Incurred Cost to Student - Out-of-Pocket	2310
Average Cost to Student - Present Value of Foregone Income	2320

*

National Manpower Requirements - Total	3010
State Manpower Requirements - Total	3030
Local Manpower Requirements - Total	3050
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
National Occupational Earnings - Average	3310
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
National Occupational Turnover Rate	3410
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

*

Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities - Completions	4130
Individuals Served by Support Programs	4220
Library Collections and Holdings	4230

*

Student Enrollment - Headcount	5010

*

Assignable Area	8050
Design Capacity	8140

PROGRAM EXISTENCE AND SIZE

Concern (8)

Vacancy Rate in Rental Housing	1270
Personal Income - Total	1300
Family Income - Distribution	1330
Births	1370
Deaths	1380
Morbidity Rate	1390
Population Receiving Public Assistance	1400
Public Offenses	1420
Education Enrollments - Total	1500
Postsecondary Education Institutions and Learning Centers	1520

*

Potential Applicants to Postsecondary Education	2010
Postsecondary Education Applicants Accepted	2050
High School Graduates - Continuing to Postsecondary Education	2080
First-Time Entering Students - Undergraduate	2100
First-Time Entering Students - First Professional	2110
First-Time Entering Students - Graduate	2120
Financial Aid - Total	2250

*

National Manpower Requirement - Total	3010
State Manpower Requirement - Total	3030
Local Manpower Requirement - Total	3050
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
National Occupational Earnings - Average	3310
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
National Occupational Turnover Rate	3410
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

Certification and Licensing Examination Attempters	4150
Sponsored Project Proposals Submitted	4210
Individuals Served by Support Programs	4220
Library Collections and Holdings	4230
*	
Full-Time Equivalent Students	5100
In-State Students	5150
Out-of-State Students	5170
*	
Total Assets - All Fund Groups	6010
Total Liabilities - All Fund Groups	6050
Total Fund Balances - All Fund Groups	6090
Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Net Change in Fund Balances - All Fund Groups	6190
Total Current Funds Revenues	6210
Total Current Funds Expenditures	6310
Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Scholarship and Fellowship Expenditures	6410
Capital Asset Expenditures	6430
Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570
*	
Student-Faculty Ratio	7210
*	
Gross Area	8030
Assignable Area	8050
Enrollment Capacity	8110
Design Capacity	8140
Average Section Size (AvSS)	8310

PROGRAM LOCATION

Concern (9)

Housing Starts	1260
Personal Income - Total	1300
Disposable Personal Income - Total	1310
Personal Consumption Expenditures - Total	1320
Intrastate Migrations	1350
Interstate Migrations	1360
Births	1370
Deaths	1380
Population Receiving Public Assistance	1400
Educational Attainment Level	1460

*

Potential Applicants to Postsecondary Education	2010
Applicants to Postsecondary Education Programs and/or Activities	2030
Postsecondary Education Applicants Accepted	2050
High School Graduates - Continuing to Postsecondary Education	2080

*

National Manpower Requirement - Total	3010
State Manpower Requirement - Total	3030
Local Manpower Requirement - Total	3050

*

Instruction Programs, Courses of Study, and Activities	4010
Organized Research Programs and Activities	4050
Public Service Programs and Activities	4110

*

Gross Area	8030
Design Capacity	8140

STUDENT ACCESS

Concern (10)

Personal Income - Total	1300
Disposable Personal Income - Total	1310
Personal Consumption Expenditures - Total	1320
Family Income - Distribution	1330

Population - Total	1340
Intrastate Migrations	1350
Interstate Migrations	1360
Population Receiving Public Assistance	1400
Education Enrollments - Total	1500
Postsecondary Education Institutions and Learning Centers	1520

*

Potential Applicants to Postsecondary Education	2010
Applicants to Postsecondary Education Programs and/or Activities	2030
Postsecondary Education Applicants Accepted	2050
High School Graduates	2070
High School Graduates - Continuing to Postsecondary Education	2080
First-Time Entering Students - Undergraduate	2100
First-Time Entering Students - First Professional	2110
First-Time Entering Students - Graduate	2120
Transfer Students	2150
Continuing Students	2160
Readmitted Students	2170
Discontinuing Students	2180
Student Migrations - Intrastate	2200
Student Migrations - Interstate	2210
Financial Aid - Total	2250
Average Cost to Student - Total	2300
Average Incurred Cost to Student - Out-of-Pocket	2310
Average Cost to Student - Present Value of Foregone Income	2320

*

National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
National Occupational Earnings - Average	3310
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
National Occupational Turnover Rate	3410
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

*

Instruction Programs, Courses of Study, and Activities	4010
Instruction Programs, Courses of Study, and Activities - Completions	4030
Public Service Programs and Activities - Completions	4130
Certification and Licensing Examination Attempters	4150
Individuals Served by Support Programs	4220

*

Student Enrollment - Headcount	5010
Full-Time Students	5040
Part-Time Students	5070
In-State Students	5150
Out-of-State Students	5170

*

Scholarship and Fellowship Expenditures	6410

*

Enrollment Capacity	8110
Design Capacity	8140
Average Square Feet per Weekly Student Hour (AvSFWSH)	8410
Average Room Utilization Rate (AvRUR)	8420
Average Station Occupancy Ratio (AvSOR)	8430
Average Station Utilization Rate (AvSUR)	8440
Occupancy Rate	8510

*

ORGANIZATIONAL UNIT COSTS

Concern (11)

Instruction Programs, Courses of Study, and Activities	4010
Organized Research Programs and Activities	4050
Public Service Programs and Activities	4110
Library Collections and Holdings	4230

*

Full-Time Equivalent Students	5100

*

Total Current Funds Expenditures	6310
Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Capital Asset Expenditures	6430
Compensation Expenditures	6450

Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

*

Full-Time Staff	7040
Part-Time Staff	7070
Full-Time Equivalent Staff	7100
Student-Faculty Ratio	7210

PROGRAM COSTS

Concern (12)

Gross State Income	1010
Gross State Product	1040
General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120
General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150

*

National Manpower Requirements - Total	3010
State Manpower Requirements - Total	3030
Local Manpower Requirements - Total	3050
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250

*

Instruction Programs, Courses of Study, and Activities	4010
Instruction Programs, Courses of Study, and Activities Completions	4030
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities - Completions	4130

*

Student Enrollment - Headcount	5010
Full-Time Equivalent Students	5100

*

Total Current Funds Expenditures	6310
Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Capital Asset Expenditures	6430
Compensation Expenditures	6450
Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

*

Full-Time Staff	7040
Part-Time Staff	7070
Full-Time Equivalent Staff	7100
Student-Faculty Ratio	7210

*

Average Section Size (AvSS)	8310

ORGANIZATIONAL UNIT IMPACTS

Concern (13)

Morbidity Rate	1390
Public Offenses	1420
Voter Registrations	1440
Educational Attainment Level	1460
Education Enrollments - Total	1500

*

Financial Aid - Total	2250

*

Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities - Completions	4070

Public Service Programs and Activities - Completions	4130
Certification and Licensing Examination Attempters	4150
Sponsored Project Proposals Submitted	4210
Individuals Served by Support Programs	4220
Library Collections and Holdings	4230

*

Scholarship and Fellowship Expenditures	6410

*

Full-Time Equivalent Staff	7100

PROGRAM IMPACTS

Concern (14)

Gross State Income	1010
Gross State Product	1040
Deaths	1380
Morbidity Rate	1390
Population Receiving Public Assistance	1400

*

Transfer Students	2150
Continuing Students	2160
Readmitted Students	2170
Discontinuing Students	2180

*

National Manpower Requirements - Total	3010
State Manpower Requirements - Total	3030
Local Manpower Requirements - Total	3050
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
National Occupational Earnings - Average	3310
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
National Occupational Turnover Rate	3410
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

*

Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities - Completions	4130
Certification and Licensing Examination Attempters	4150
Sponsored Project Proposals Submitted	4210
Individuals Served by Support Programs	4220

*

Full-Time Equivalent Staff	7100

DIFFERENTIATION AND ARTICULATION

Concern (15)

Education Enrollments - Total	1500
Postsecondary Education Institutions and Learning Centers	1520

*

High School Graduates - Continuing to Postsecondary Education	2080
First-Time Entering Students - Undergraduate	2100
First-Time Entering Students - First Professional	2110
First-Time Entering Students - Graduate	2120
Transfer Students	2150
Continuing Students	2160
Readmitted Students	2170
Discontinuing Students	2180
Student Migrations - Intrastate	2200

*

Instruction Programs, Courses of Study, and Activities	4010
Organized Research Programs and Activities	4050
Public Service Programs and Activities	4110

PROGRAM PRIORITIES

Concern (16)

Gross State Income	1010
Gross State Product	1040
General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120

General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150
Intrastate Migrations	1350
Interstate Migrations	1360
Births	1370
Deaths	1380
Morbidity Rate	1390
Public Offenses	1420

*

Potential Applicants to Postsecondary Education	2010
Applicants to Postsecondary Education Programs and/or Activities	2030

*

National Manpower Requirements - Total	3010
State Manpower Requirements - Total	3030
Local Manpower Requirements - Total	3050
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250

*

Instruction Programs, Courses of Study, and Activities	4010
Instruction Programs, Courses of Study, and Activities - Completions	4030
Organized Research Programs and Activities	4050
Organized Research Programs and Activities - Completions	4070
Public Service Programs and Activities	4110
Public Service Programs and Activities - Completions	4130
Library Collections and Holdings	4230

*

Student Enrollment - Headcount	5010

*

Total Assets - All Fund Groups	6010
Total Liabilities - All Fund Groups	6050
Total Fund Balances - All Fund Groups	6090
Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

*

Design Capacity	8140
Average Square Feet per Weekly Student Hour (AvSFWSH)	8410
Average Room Utilization Rate (AvRUR)	8420
Average Station Occupancy Ratio (AvSOR)	8430
Average Station Utilization Rate (AvSUR)	8440

OPERATIONAL FUNDING

Concern (17)

General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120
General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150
Price Index	1220

*

Financial Aid - Total	2250

*

Sponsored Project Proposals Submitted	4210
Individuals Served by Support Programs	4220
Library Collections and Holdings	4230

*

Full-Time Equivalent Students	5100

*

Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Net Change in Fund Balances - All Fund Groups	6190
Total Current Funds Revenues	6210
Total Current Funds Expenditures	6310
Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Scholarship and Fellowship Expenditures	6410
Capital Asset Expenditures	6430
Compensation Expenditures	6450

Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

*

Staff - Headcount	7010
Full-Time Staff	7040
Part-Time Staff	7070
Full-Time Equivalent Staff	7100
Staff Activity Workload - Average	7130
Student-Faculty Ratio	7210

*

Land Area	8010
Gross Area	8030
Estimated Replacement Value	8210
Average Section Size (AvSS)	8310

CAPITAL FUNDING

Concern (18)

General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120
General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150
Price Index	1220
Housing Starts	1260
Vacancy Rate in Rental Housing	1270

*

Sponsored Project Proposals Submitted	4210

*

Full-Time Equivalent Students	5100

*

Total Additions - All Fund Groups	6110
Total Deductions - All Fund Groups	6150
Total Net Change in Fund Balances - All Fund Groups	6190

Total Current Funds Revenues	6210
Capital Asset Expenditures	6430

*

Full-Time Equivalent Staff	7100

*

Land Area	8010
Gross Area	8030
Assignable Area	8050
Nonassignable Area	8070
Estimated Replacement Value	8210
Average Square Feet per Weekly Student Hour (AvSFWSH)	8410
Average Room Utilization Rate (AvRUR)	8420
Average Station Occupancy Ratio (AvSOR)	8430
Average Station Utilization Rate (AvSUR)	8440
Occupancy Rate	8510

REVENUE ANALYSIS

Concern (19)

Gross State Income	1010
Gross State Product	1040
General Fund Revenues - Total for State	1070
General Fund Appropriation Expenditures - Total for State	1110
General Fund Appropriation Expenditures - Total for Education	1120
General Fund Appropriation Expenditures - Total for Post-secondary Education	1130
Governmental Indebtedness - Total	1150
Taxes - Total	1200

*

Financial Aid - Total	2250

*

Full-Time Students	5040
Part-Time Students	5070
Full-Time Equivalent Students	5100
In-State Students	5150
Out-of-State Students	5170

*

Total Assets - All Fund Groups	6010
Total Liabilities - All Fund Groups	6050

Total Fund Balances - All Fund Groups	6090
Total Additions - All Fund Groups	6110
Total Current Funds Revenues	6210
Scholarship and Fellowship Expenditures	6410

*

Occupancy Rate	8510

FACULTY AND STAFF WORKLOAD

Concern (20)

Individuals Served by Support Programs	4220
Library Collections and Holdings	4230

*

Full-Time Equivalent Students	5100

*

Compensation Expenditures	6450
Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

*

Staff - Headcount	7010
Full-Time Staff	7040
Part-Time Staff	7070
Full-Time Equivalent Staff	7100
Staff Activity Workload - Average	7130
Student-Faculty Ratio	7210

*

Average Section Size (AvSS)	8310
Average Square Feet per Weekly Student Hour (AvSFWSH)	8410
Average Room Utilization Rate (AvRUR)	8420
Average Station Occupancy Ratio (AvSOR)	8430
Average Station Utilization Rate (AvSUR)	8440

FACULTY AND STAFF COMPENSATION

Concern (21)

Personal Income - Total	1300
Disposable Personal Income - Total	1310
Personal Consumption Expenditures - Total	1320

*

Total Current Funds Expenditures	6310
Instruction Expenditures	6330
Organized Research Expenditures	6340
Public Service Expenditures	6350
Academic Support Expenditures	6360
Student Services Expenditures	6370
Institutional Support Expenditures	6380
Independent Operations Expenditures	6390
Compensation Expenditures	6450
Full Cost per Semester Credits	6510
Full Cost per Contact Hours	6530
Full Cost per Course Enrollments	6550
Full Cost per Full-Time Equivalent Student	6570

*

Full-Time Staff	7040
Part-Time Staff	7070
Full-Time Equivalent Staff	7100

STUDENT AID

Concern (22)

Family Income - Distribution	1330
Population Receiving Public Assistance	1400

*

Transfer Students	2150
Continuing Students	2160
Readmitted Students	2170
Financial Aid - Total	2250
Average Cost to Student - Total	2300
Average Incurred Cost to Student - Out-of-Pocket	2310
Average Cost to Student - Present Value of Foregone Income	2320

*

In-State Students	5150
Out-of-State Students	5170

*

Scholarship and Fellowship Expenditures	6410

MANPOWER

Concern (23)

New Construction Activity - Value	1250
Housing Starts	1260
Population - Total	1340
Intrastate Migrations	1350
Interstate Migrations	1360
Population Receiving Public Assistance	1400
Education Enrollments - Total	1500

*

Discontinuing Students	2180
Student Migrations - Intrastate	2200
Student Migrations - Interstate	2210

*

National Manpower Requirements - Total	3010
State Manpower Requirements - Total	3030
Local Manpower Requirements - Total	3050
National Civilian Labor Force - Total	3110
State Civilian Labor Force - Total	3130
Local Civilian Labor Force - Total	3150
National Civilian Labor Force - Employed	3210
State Civilian Labor Force - Employed	3230
Local Civilian Labor Force - Employed	3250
National Occupational Earnings - Average	3310
State Occupational Earnings - Average	3330
Local Occupational Earnings - Average	3350
National Occupational Turnover Rate	3410
State Occupational Turnover Rate	3430
Local Occupational Turnover Rate	3450

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Instruction Programs, Courses of Study, and Activities	4010
Instruction Programs, Courses of Study, and Activities - Completions	4030
Certification and Licensing Examination Attempters	4150

REFERENCES

Collier, Douglas J. Higher Education Finance Manual: An Overview. Technical Report 37. Boulder, Colorado: Western Interstate Commission for Higher Education, 1972.

Goddard, Suzette M., Martin, James S., and Romney, Leonard C. Data Element Dictionary: Course, Facilities, Finance, Staff, Student (Second Edition). Technical Reports 29, 30, 31, 32, 33. Boulder, Colorado: Western Interstate Commission for Higher Education, 1972.

Gulko, Warren W. Program Classification Structure. Technical Report 27. Boulder, Colorado: Western Interstate Commission for Higher Education, 1972.

Gulko, Warren W. and Hussain, K.M. A Resource Requirements Prediction Model (RRPM-1): An Introduction to the Model. Technical Report 19. Boulder, Colorado: Western Interstate Commission for Higher Education, 1971.

Johnson, Richard S. NCHEMS Student Flow Model SFM-1A: An Introduction (Draft Edition). Boulder, Colorado: Western Interstate Commission for Higher Education, 1973.

McLaughlin, James N., Wing, Paul and Allman, Katherine A. Statewide Measures Inventory: An Inventory of Items of Information Relevant to Statewide Postsecondary Education Planning and Management. Technical Report 48A (Field Review Edition). Boulder, Colorado: Western Interstate Commission for Higher Education, 1974.

Micek, Sidney S. and Wallhaus, R.A. An Introduction to the Identification and Uses of Higher Education Outcome Information. Technical Report 40. Boulder, Colorado: Western Interstate Commission for Higher Education, 1973.

Renkiewicz, Nancy and Topping, James. Information Exchange Procedures. (Field Review Edition). Technical Report 47. Boulder, Colorado: Western Interstate Commission for Higher Education, 1973.

Romney, Leonard C. Higher Education Facilities Inventory Classification Manual. Technical Report 36. Boulder, Colorado: Western Interstate Commission for Higher Education, 1972.

Thomas, Charles R. Data Element Dictionary: Student, Staff, Facilities, Course, Finance. Technical Reports 7, 8, 9, 11, 12. Boulder, Colorado: Western Interstate Commission for Higher Education, 1970.

Topping, James and Miyataki, Glen. Program Measures. Technical Report 35. Boulder, Colorado: Western Interstate Commission for Higher Education, 1973.

Wallhaus, Robert A. A Description of Postsecondary Education in a Planning and Management Context. Boulder, Colorado: Western Interstate Commission for Higher Education, 1973.

Wing, Paul. Statewide Planning for Postsecondary Education: Conceptualization and Analysis of Relevant Information. Boulder, Colorado: Western Interstate Commission for Higher Education, 1972.

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